

PATENT/Docket No.: 6142.N2 CP

EXHIBIT A

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SEQ ID NO:5 (83) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL SEQ ID NO:6 (75) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL SEQ ID NO:7 (70) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL SEQ ID NO:8 (119) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL SEQ ID NO:9 (89) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL SEQ ID NO:10 (70) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL															
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Consensus (157) WLKMFQSWSGPEKLLALDELIDSCEPTQVKHMMQVIEPQFQRDFISLLPKEL															
	Consensus	; (157)	WLKI	4FQSWS	GPEK	LLA	LDEL	DSC	EPTQV	кнм	MQVIE	PQFÇ	QRDF	ISLLP	KEL

Tuesday, April 23, 2002 15:45:03 Page 1

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			····		Sect	ion 5
(209)		220	230	240	250	260
SEQ ID NO:3 (209)	ALYVLSF	LEPKDLLQ	AAQTCRYWR	ILAEDNLLWREI	CKEEGIDEPLHIM	RRK
SEQ ID NO:4 (174)	ALYVLSF	LEPKDLLQ.	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK.
SEQ ID NO:5 (135)	ALYVLSF	LEPKDLLQ.	AAQTCRYWR	ILAEDNLLWREI	CKEEGIDEPLHIM	RRK
SEQ ID NO:6 (127)	ALYVLSF	LEPKDLLQ.	AAQTCRYWR	ILAEDNLLWREI	CKEEGIDEPLHIK	RRK
SEQ ID NO:7 (122)	ALYVLSF	LEPKDLLQ	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK
SEQ ID NO:8 (171)	ALYVLSF	LEPKDLLQ	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK
SEQ ID NO:9 (141)	ALYVLSF	LEPKDLLQ	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK
SEQ ID NO:10 (122)	ALYVLSF	LEPKDLLQ	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK
Consensus (209)	ALYVLSF	LEPKDLLQ.	AAQTCRYWR	LAEDNLLWREI	CKEEGIDEPLHIK	RRK
					Sect	ion 6
(261)	261	270	280	290	300	312
SEQ ID NO:3 (261)	VIKPGFI	HSPWKSAY	IRQHRIDTN	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:4 (226)	VIKPGFI	HSPWKSAY	IRQHRIDTNU	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:5 (187)	VIKPGFI	HSPWKSAY	IRQHRIDTNU	VRRGELKSPKV	KGHDDHVITCLQF	CGN
SEQ ID NO:6 (179)	VIKPGFI	HSPWKSAY	IRQHRIDTNU	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:7 (174)	VIKPGFI	HSPWKSAY	IRQHRIDTNU	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:8 (223)	VIKPGFI	HSPWKSAY	IRQHRIDTNU	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:9 (193)	VIKPGFI	HSPWKSAY:	IRQHRIDTNV	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
SEQ ID NO:10 (174)	VIKPGFI	HSPWKSAY	IRQHRIDTNV	VRRGELKSPKVI	KGHDDHVITCLQF	CGN
					KGHDDHVITCLQF	
· · · · · · · · · · · · · · · · · · ·					Secti	ion 7
(313)	313	320	330	340	,350	364
SEQ ID NO:3 (313)	RIVSGSD	DNTLKVWS	AVTGKCLRTI	VGHTGGVWSSQ	MRDNIIISGSTDR	TLK
SEQ ID NO:4 (278)	RIVSGSD	DNTLKVWS	AVTGKCLRTI	VGHTGGVWSSQ	MRDNIIISGSTDR	TLK
SEQ ID NO:5 (239)	RIVSGSD	DNTLKVWSZ	AVTGKCLRTI	VGHTGGVWSSQ	MRDNIIISGSTDR	TLK
SEQ ID NO:6 (231)	RIVSGSD	DNTLKVWS	AVTGKCLRTI	VGHTGGVWSSQ	MRDNIIISGSTDR	TLK
					MRDNIIISGSTDR	
					MRDNIIISGSTDR	
					MRDNIIISGSTDR	
					MRDNIIISGSTDR	
Consensus (313)	RIVSGSD	DNTLKVWSZ	AVTGKCLRTI	VGHTGGVWSSQ	MRDNIIISGSTDR	TLK
					Secti	ion 8
(365)	365 370		80	390 4	00	416
SEQ ID NO:3 (365)	VWNAETG	ECIHTLYGI	ITSTVRCMHI	HEKRVVSGSRI	ATLRVWDIETGQC	LHV
					ATLRVWDIETGQC	
SEQ ID NO:5 (291)	VWNAETG	ECIHTLYGE	ITSTVRĊMHI	HEKRVVSGSRI	ATLRVWDIETGQC	\mathbf{THA}_{c}
SEQ ID NO:6 (283)	VWNAETG	ECIHTLYGI	ITSTVRCMHI	HEKRVVSGSRI	ATLRVWDIETGQC	LHV
					ATLRVWDIETGQC	
					ATLRVWDIETGQC	
					ATLRVWDIETGQC	
					ATLRVWDIETGQC	
Consensus (365)	VWNAETG	ECIHTLYGH	HTSTVRCMHI	HEKRVVSGSRI	ATLRVWDIETGQC	LHV

Tuesday, April 23, 2002 15:45:04 Page 2

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(417) 430 440 468 SEQ ID NO:3 (417) IMGHVAAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:4 (482) IAGHVAAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:5 (433) IMGHVAAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:6 (335) IMGHVAAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:7 (30) IMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:8 (379) IMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:10 (30) IMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ Consensus (417) LMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ Consensus (417) LMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:3 (30) IMGHVAAVRCVQYDGRRVVSGAYDFMVKWDPETETCLHTLQGHTNRVYSLQ SEQ ID NO:4 (49) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:5 (395) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:6 (37) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:6 (381) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:6 (362) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:6 (37) FDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNAD SEQ ID NO:6 (<u></u>					Section 9
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Tuesday, April 23, 2002 15:45:06 Page 3

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- Section 13

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Tuesday, April 23, 2002 15:45:06 Page 4

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